**Supplemental Math**  Name:

**Miss. Sciandra**

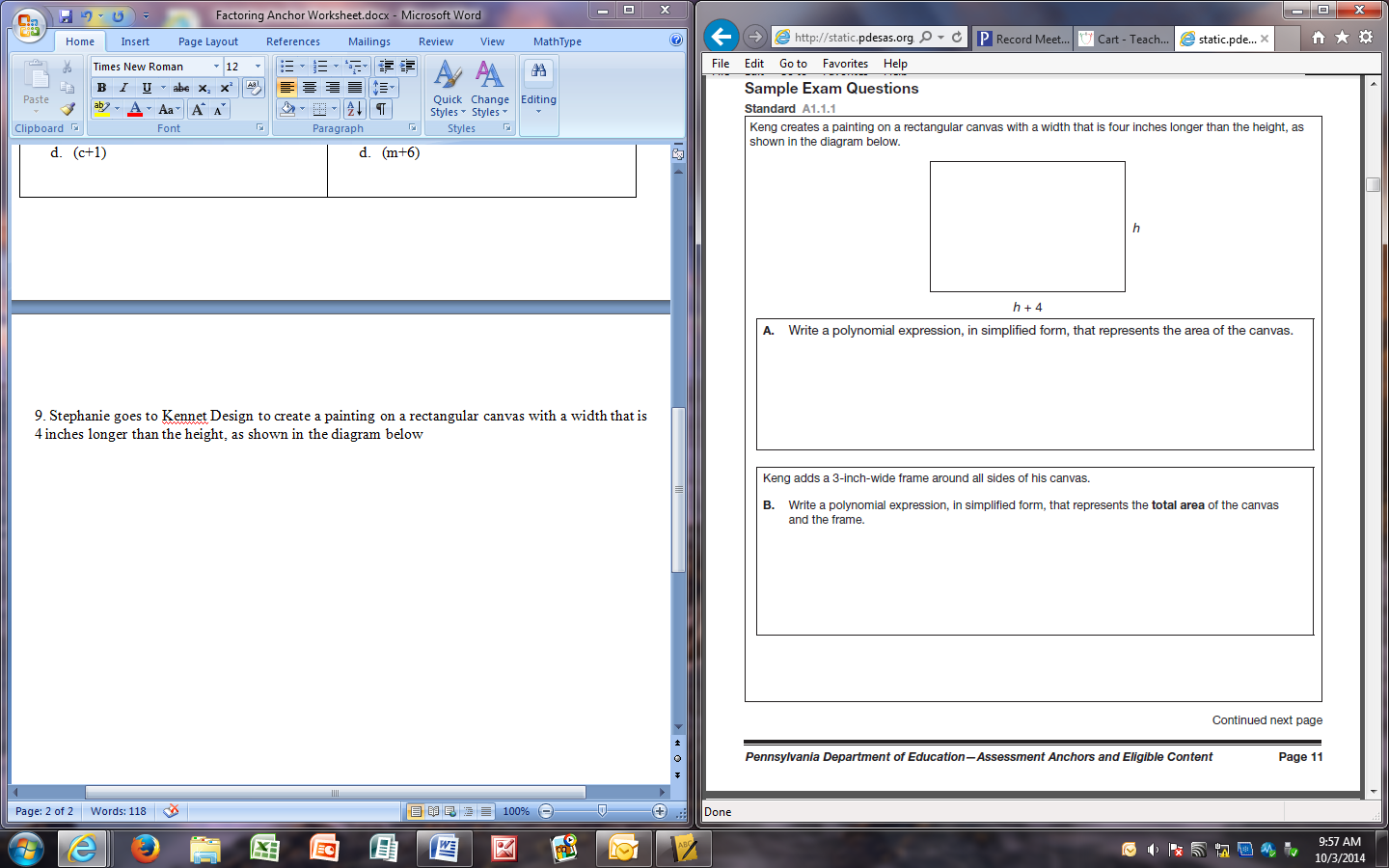
**Factoring Anchor Worksheet** Date:

***Circle the factor of the trinomial.***

|  |  |
| --- | --- |
| 1.   1. (x+3) 2. (x-2) 3. (x+2) 4. (x-5) | 2.   1. (a-3) 2. (a-2) 3. (a-4) 4. (a+3) |
| 3.   1. (b+1) 2. (b-2) 3. (b+4) 4. (b-1) | 4.   1. (c-5) 2. (c+5) 3. (c+25) 4. (c-1) |
| 5.   1. (g-5) 2. (g+5) 3. (g+2) 4. (g+1) | 6.   1. (x-5) 2. (x+5) 3. (x+2) 4. (x+1) |
| 7.   1. (c-5) 2. (c-6) 3. (c-4) 4. (c+1) | 8.   1. (m-5) 2. (m-6) 3. (m+2) 4. (m+6) |

9. Stephanie goes to Kennet Design to create a painting on a rectangular canvas with a width that is 4 inches longer than the height, as shown in the diagram below

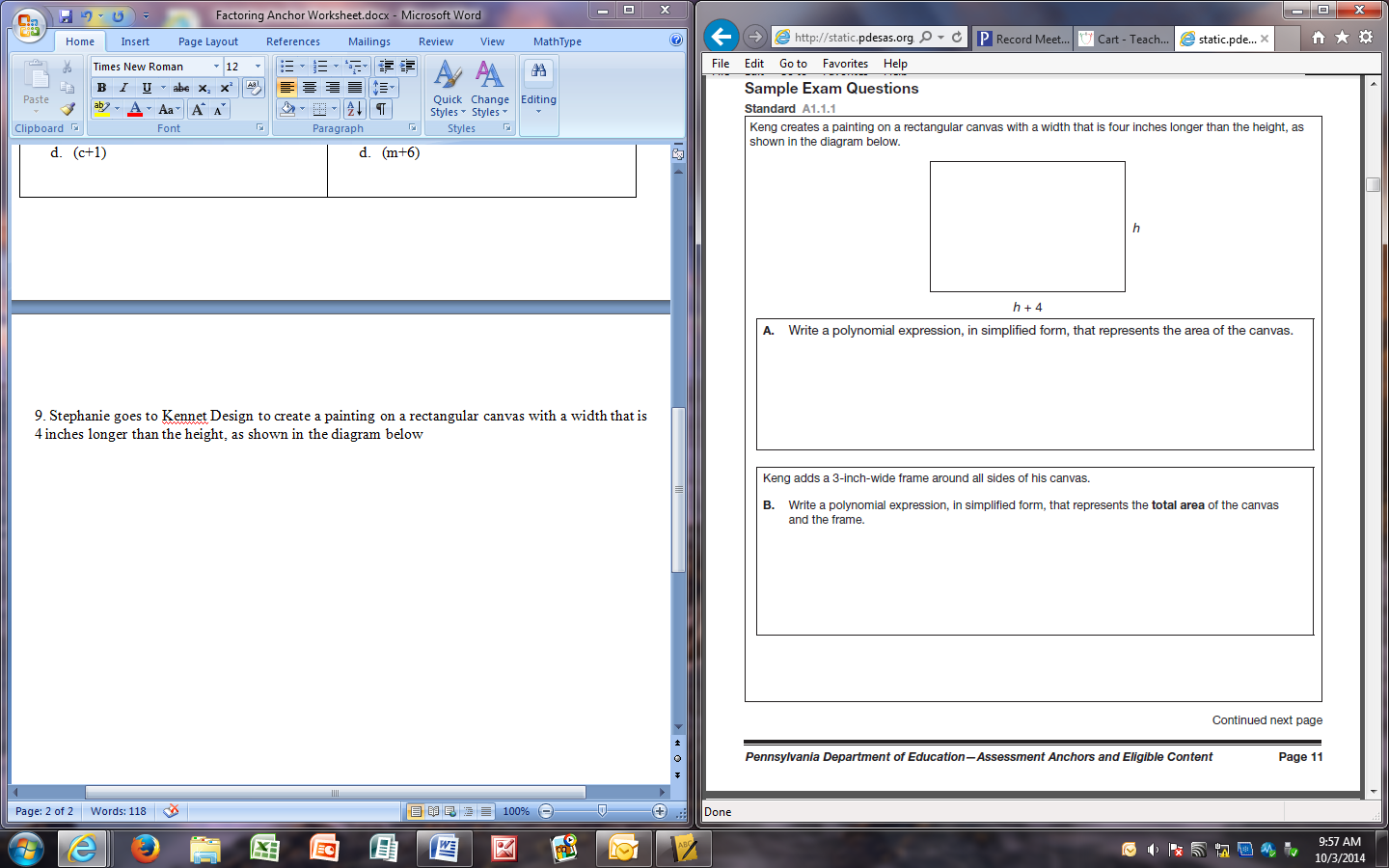
**A.** Write a polynomial expression, *in simplified form,* that represents the **area** of the canvas.



Steph adds a 3-inch-wide frame around all sides of her canvas.

**B.** Write a polynomial expression, in simplified form,

that represents the **total area** of the canvas and the frame.



10. Your family decided to build a rectangular pool for next summer! The dimensions on the blue prints are as follows: the height is 3 feet shorter than the width.

**A.** Draw a diagram to depict the pool & its dimensions

**B.** Write a polynomial expression, *in simplified form,* that represents the **area** of the pool.

**C.** The total cost of the pool is out of your family’s budget. You must make it smaller by taking 3 feet off all sides of the pool.

Write a polynomial expression, in simplified form, that represents the **total area** of the smaller pool.

11. Your neighbor’s family decided to build a rectangular pool for next summer! The dimensions on the blue prints are as follows: the width is 4 feet longer than the height.

**A.** Draw a diagram to depict the pool & its dimensions

**B.** Write a polynomial expression, *in simplified form,* that represents the **area** of the pool.

**C.** Your neighbors decide to add a hot tub. They add the hot tub by adding 4 feet to the width only.

Write a polynomial expression, in simplified form, that represents the **total area** of the smaller pool.

12. You are building a new fence around your horse farm and want a rectangular fence with a width that is 10 feet longer than the height.

**A.** Draw a diagram to depict the fence & its dimensions

**B.** Write a polynomial expression, *in simplified form,* that represents the area of the **fence**.

**C.** You want to add more space for the horse by adding 4 feet to the width and height all around.

Write a polynomial expression, in simplified form, that represents the **total area** of the fence.